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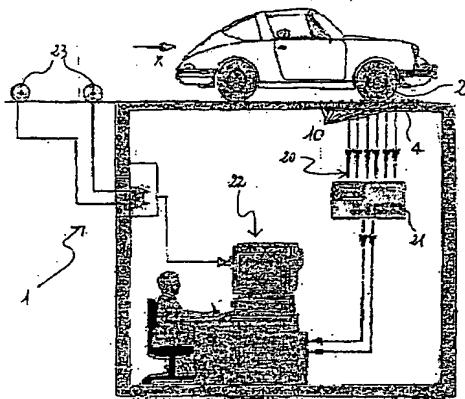
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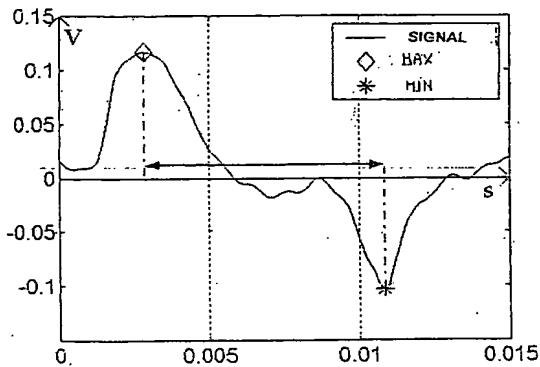
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[Continued on next page]

(54) Title: PROPERTIES OF A TIRE WITH SENSOR SIGNALS OF SPEED OF DEFORMATION



(57) **Abstract:** A method for measuring characteristic properties of a pneumatic tyre (2) for vehicle wheels comprises the steps of arranging at least one array of sensors (10) along a direction y transversal to a motion direction x of the tyre (2), making the tyre (2) pass at speed over least one array of sensors (10) along said direction x, detecting the speed of deformation of each sensor (10), generating, for each sensor (10), an electrical signal proportional to said speed of deformation and determining, starting from each detected electrical signal, at least one characteristic property of the tyre (2), for example the size and/or shape of the footprint area of the tyre (2). By integrating in time the electrical signal it is then possible to determine the distribution of pressure on such a footprint area. The sensors (10) comprise piezoelectric elements which, being known for having high frequency response, allow detection in high-speed conditions.



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WO 2004/057292 A1



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